

TA-FE370/FE570

SERVICE MANUAL

Ver 1.0 2001.04

AEP Model
UK Model



Photo: TA-FE570 (BLACK)

SPECIFICATIONS

Amplifier section

DIN power output

TA-FE570:	110 W + 110 W (4 ohms at 1 kHz)
TA-FE370:	70 W + 70 W (4 ohms at 1 kHz)

Frequency response

PHONO (20 Hz - 20 kHz):	RIAA equalization curve ± 1.0 dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD:	7 Hz - 70 kHz $_{-3}^{+0}$ dB

S/N (network A)

PHONO:	80 dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD:	105 dB

Output voltage/impedance

RECOUT:	200 mV, 1 kilohm
PHONES:	5 mW (at 8 ohms)

Speakers impedance

4 - 16 ohms

Damping factor

80 (8 ohms, 1 kHz)

General

System

Power amplifier with all stages directly coupled
Preamplifier: Low-noise, equalizer amplifier

Power requirements

230 V AC, 50/60 Hz

Power consumption

TA-FE570:	190 W
TA-FE370:	160 W
	0.6 W (In standby mode)

Dimensions (approx.) (w/h/d)

430 x 135 x 310 mm
incl. projecting parts and controls

Mass (approx.)

TA-FE570:	6.5 kg
TA-FE370:	5.5 kg

Supplied accessories

Remote commander (remote) RM-S325 (1)
Sony batteries R6 (size-AA) (2)

Design and specifications are subject to change without notice.

INTEGRATED STEREO AMPLIFIER

SECTION 1
SERVICING NOTES

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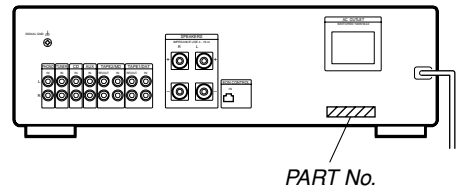
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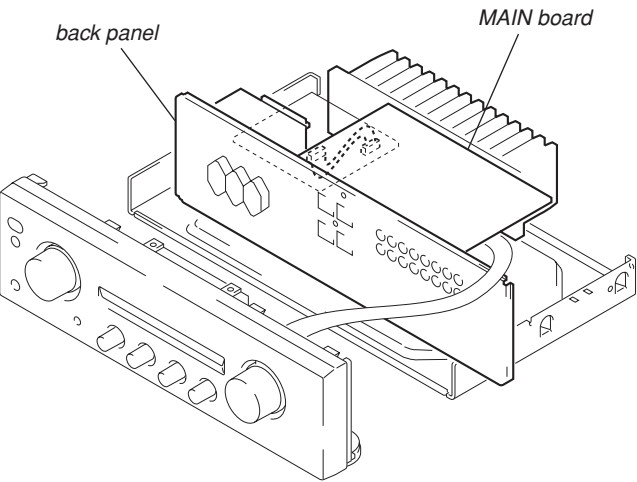
MODEL IDENTIFICATION
– Back Panel –





Model	PART No.
TA-FE570: AEP model	4-233-359-0□
TA-FE570: UK model	4-233-359-1□
TA-FE370: AEP model	4-233-359-2□
TA-FE370: UK model	4-233-359-3□

MAIN BOARD SETTING

On AEP model of this set, AC outlet is mounted onto the AC OUT-LET board holding the back panel between. Since removing the MAIN board alone is difficult, in repairing the MAIN board, handle the MAIN board with the back panel connected as shown in the figure below.



SAFETY-RELATED COMPONENT WARNING!!

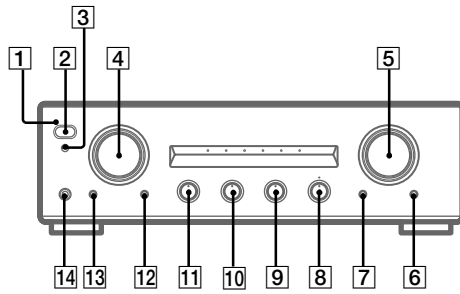
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 2 GENERAL

This section is extracted from instruction manual.

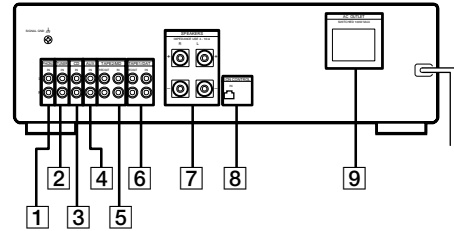
LOCATION OF CONTROLS

• Front Panel



- BALANCE [8] (8)
- BASS [10] (8)
- EON LINK (TA-FE570 only) [13] (8)
- INPUT SELECTOR [4] (8, 9)
- LOUDNESS [6] (8)
- PHONES jack [14] (8)
- SOURCE DIRECT [7] (8)
- SPEAKERS selector [11] (8)
- STANDBY indicator [1] (8)
- TAPE1 MONITOR (TA-FE570 only) [12] (9)
- TREBLE [9] (8)
- VOLUME control [5] (8)
- I/⏻ (power) [2] (8, 9)
- ⏻ (remote control sensor) [3] (5)

• Back Panel

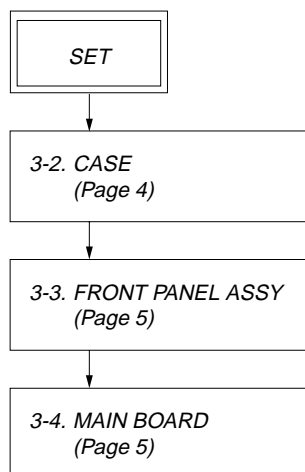


- [1] PHONO jack
- [2] TUNER jack
- [3] CD jack
- [4] AUX jack
- [5] TAPE2/MD jack
- [6] TAPE1/DAT jack
- [7] SPEAKERS terminal
- [8] EON CONTROL connector (FE570)
- [9] AC OUTLET connector (AEP model)

SECTION 3 DISASSEMBLY

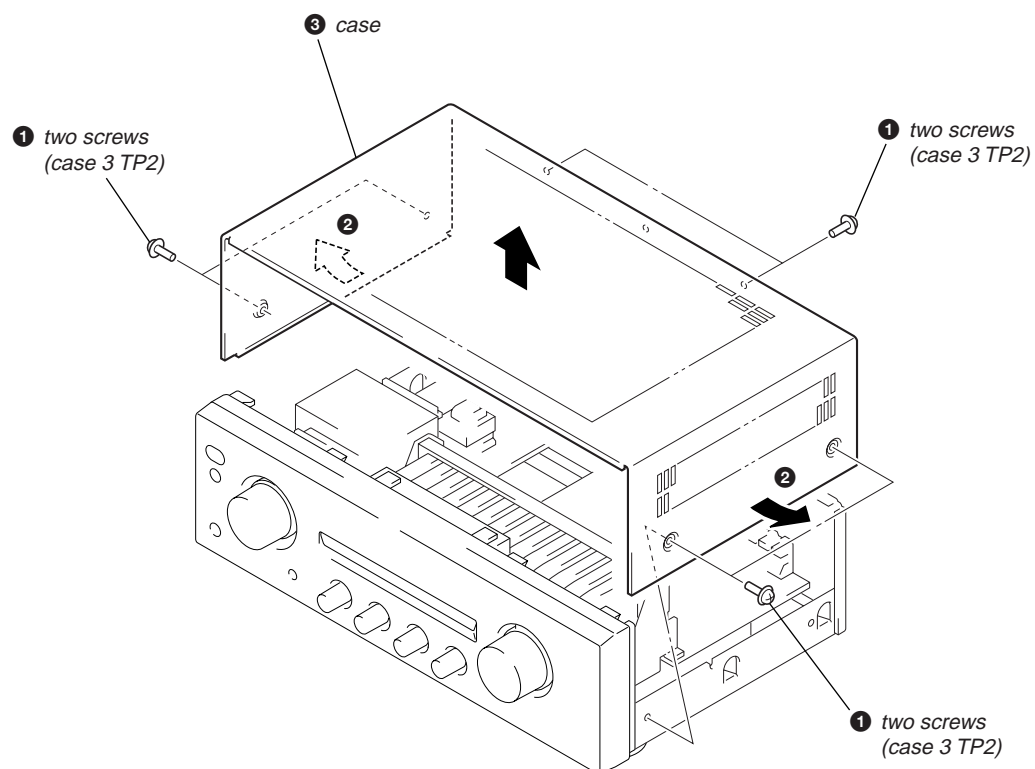
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

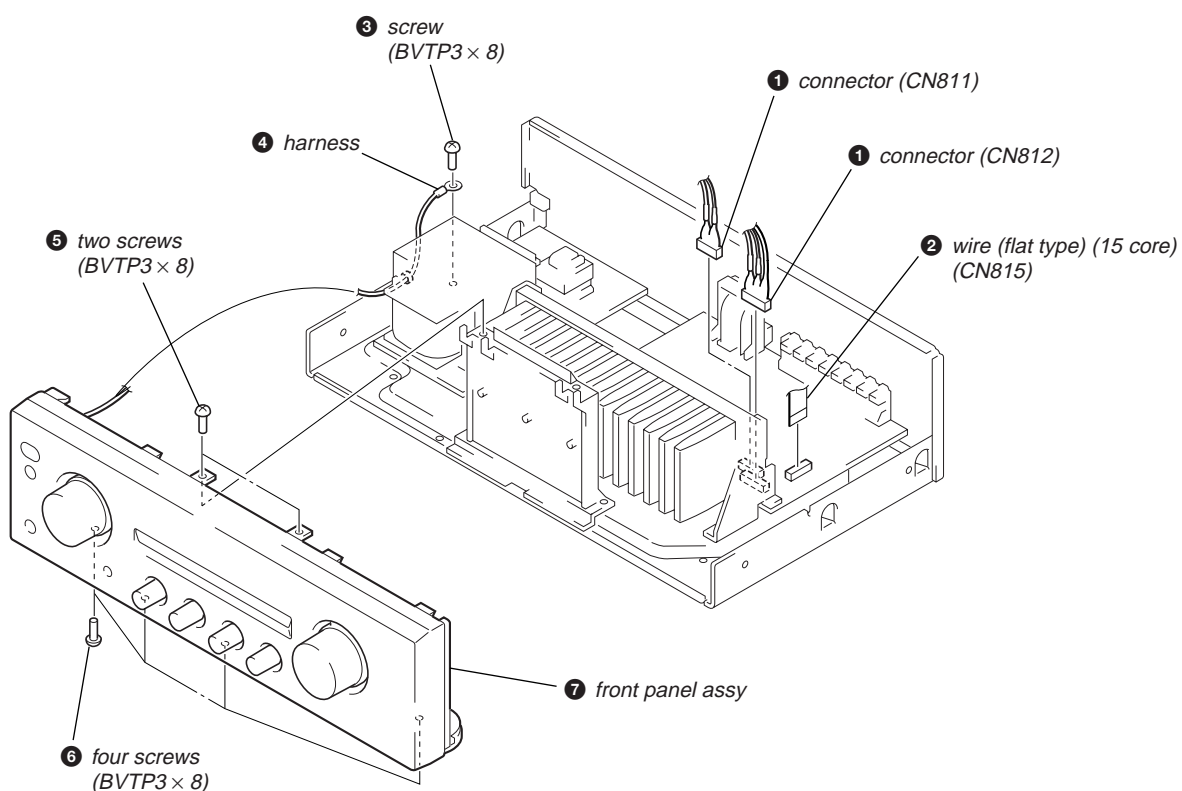


Note: Follow the disassembly procedure in the numerical order given.

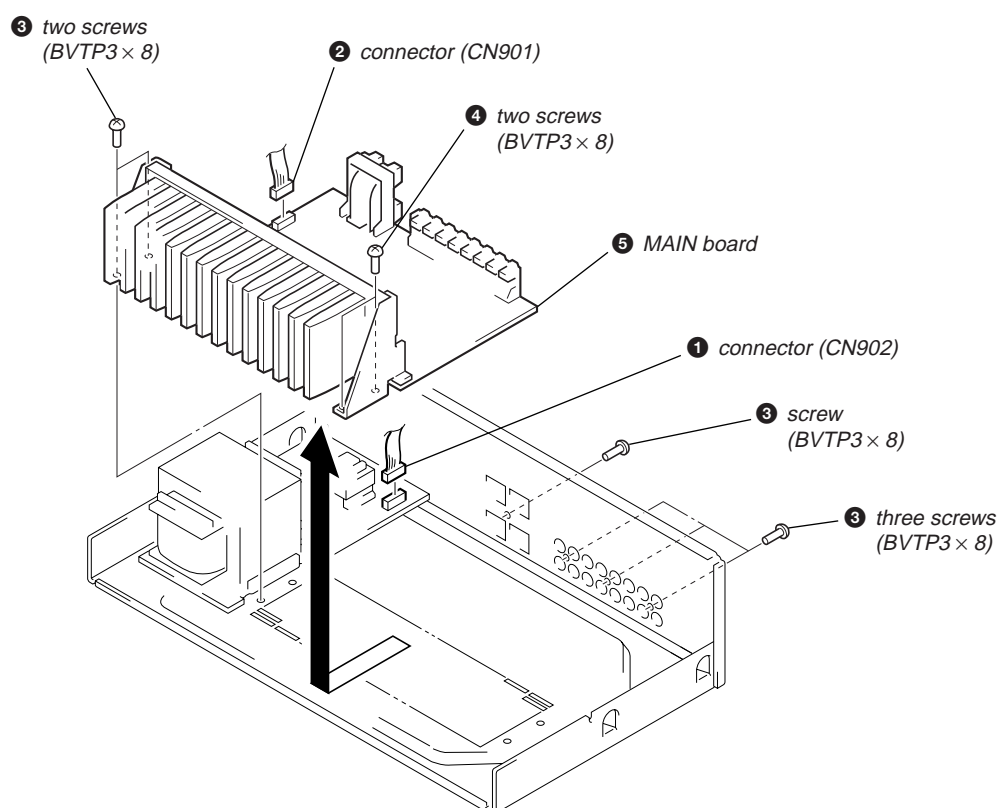
3-2. CASE



3-3. FRONT PANEL ASSY



3-4. MAIN BOARD



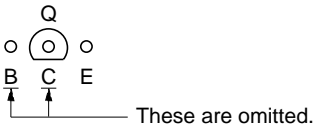
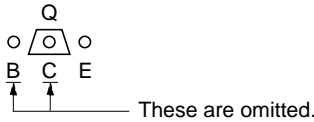
MEMO

SECTION 4
DIAGRAMS

4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- — : parts extracted from the component side.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)
- Indication of transistor



Note on Schematic Diagram:

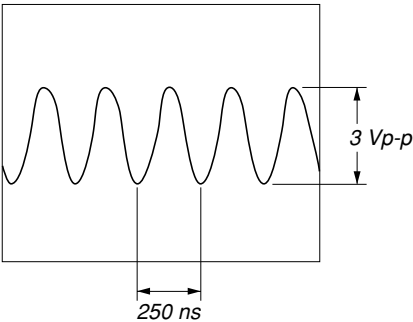
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- $\text{---}\text{---}\text{---}$: nonflammable resistor.
- $\text{---}\text{---}\text{---}$: panel designation.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

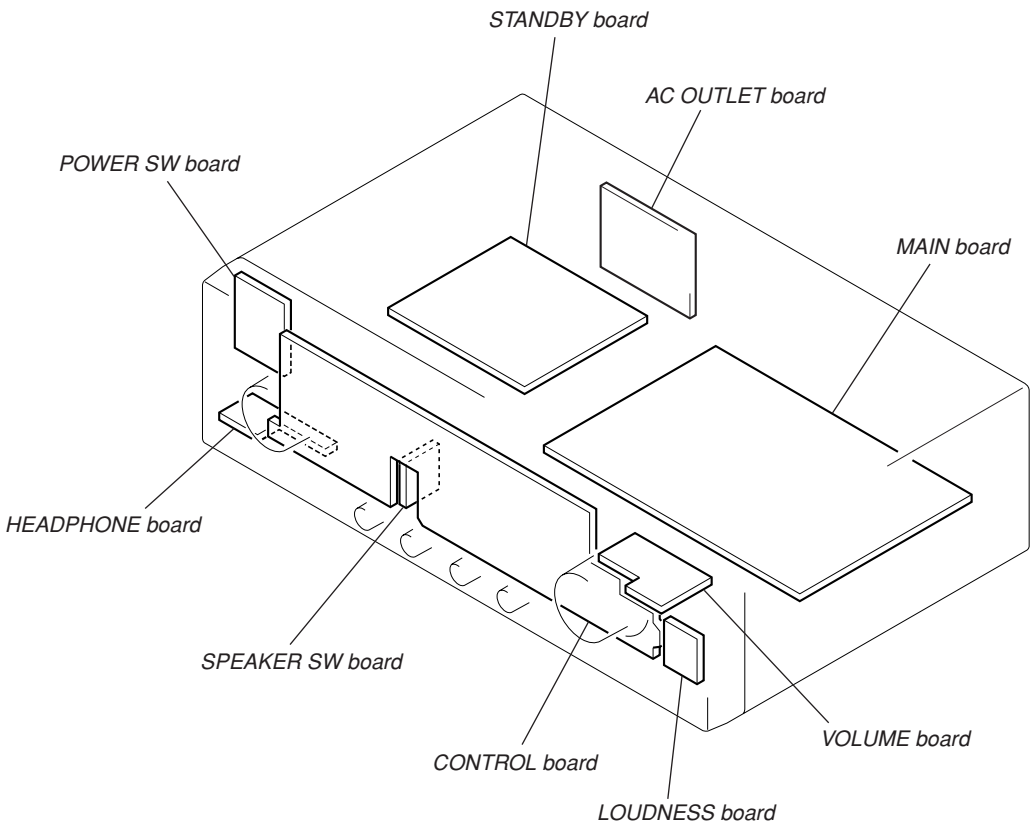
- --- : B+ Line.
- --- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : TUNER
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 \Rightarrow : TUNER
 \Rightarrow : TAPE1/DAT IN
 \Rightarrow : RECOU
 \Rightarrow : TAPE2/MD IN
 \Rightarrow : CD
 \Rightarrow : PHONO

• Waveform
– CONTROL Board –

① IC801 ① (XOUT)



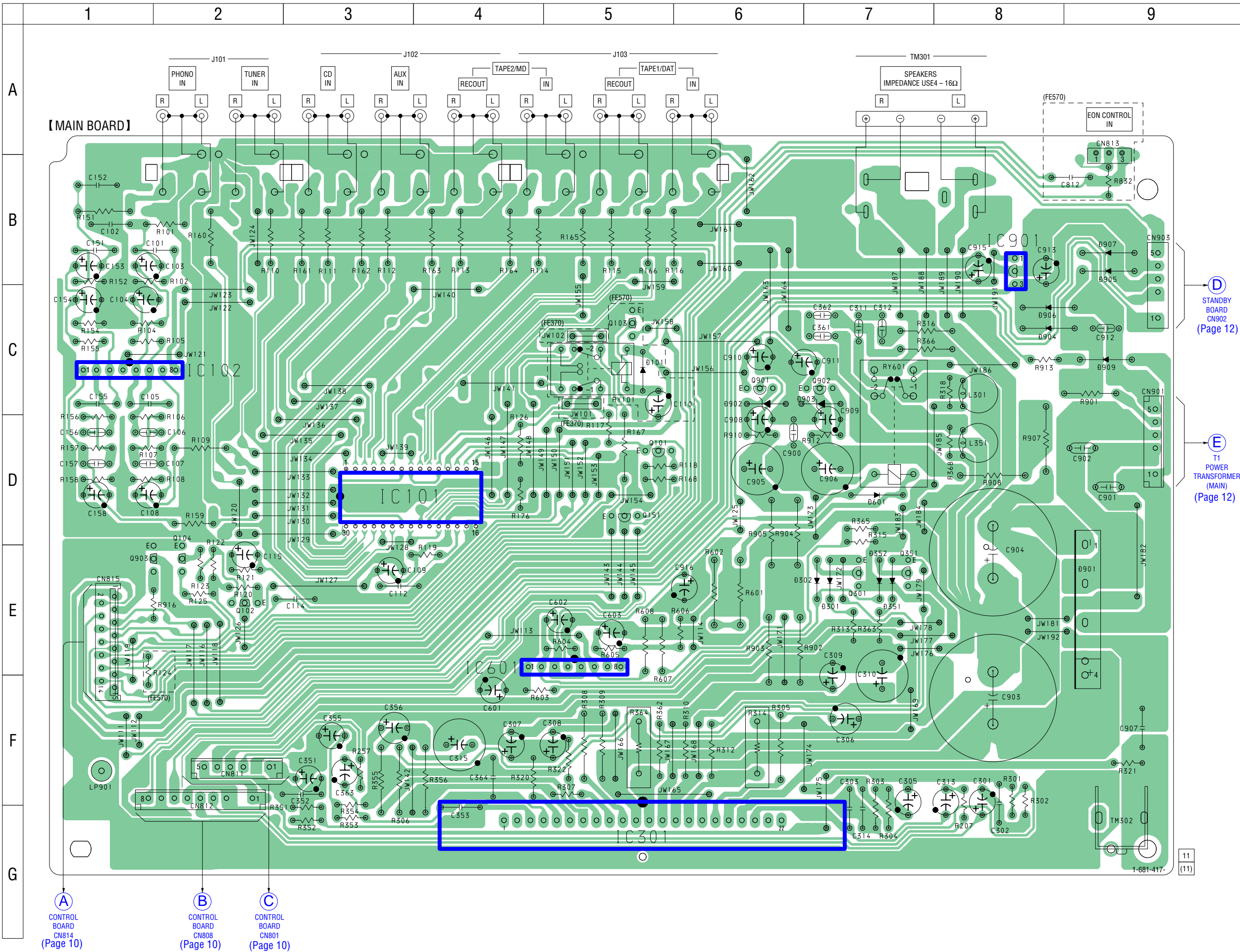
• Circuit Boards Location



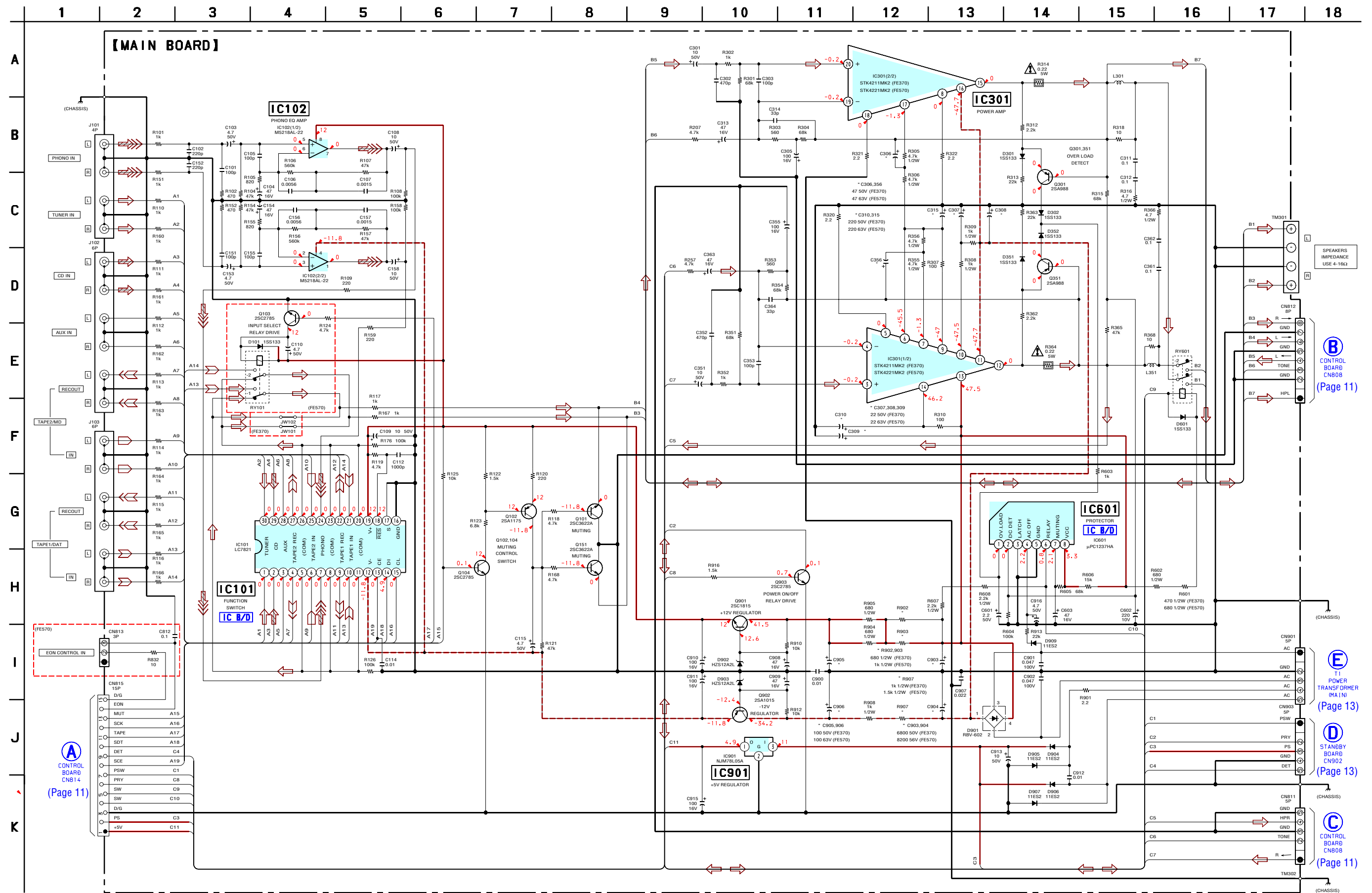
4-2. PRINTED WIRING BOARD – MAIN Board – • See page 7 for Circuit Boards Location.

• Semiconductor Location

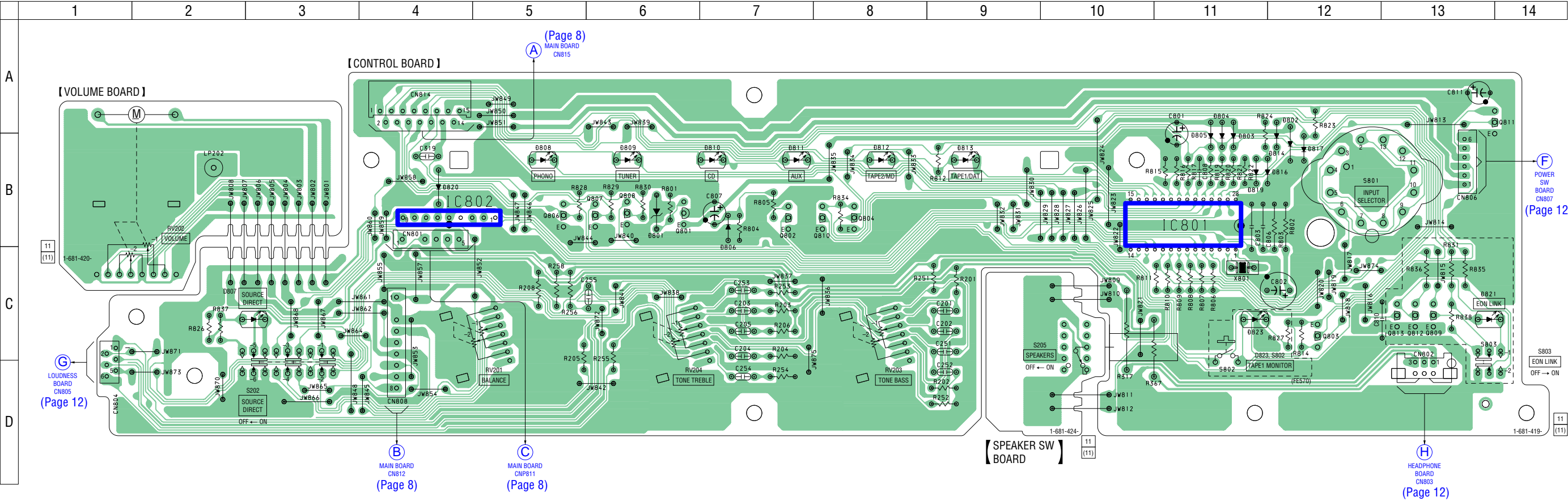
Ref. No.	Location
D101	C-5
D301	E-7
D302	E-7
D351	E-7
D352	E-7
D601	D-7
D901	E-9
D902	C-6
D903	C-7
D904	C-8
D905	B-9
D906	C-8
D907	B-9
D909	C-9
IC101	D-3
IC102	C-1
IC301	G-5
IC601	E-5
IC901	B-8
Q101	D-5
Q102	E-2
Q103	C-5
Q104	E-2
Q151	D-5
Q301	E-7
Q351	E-7
Q901	C-6
Q902	C-7
Q903	E-1



4-3. SCHEMATIC DIAGRAM – MAIN Board – • See page 14 for IC Block Diagrams.



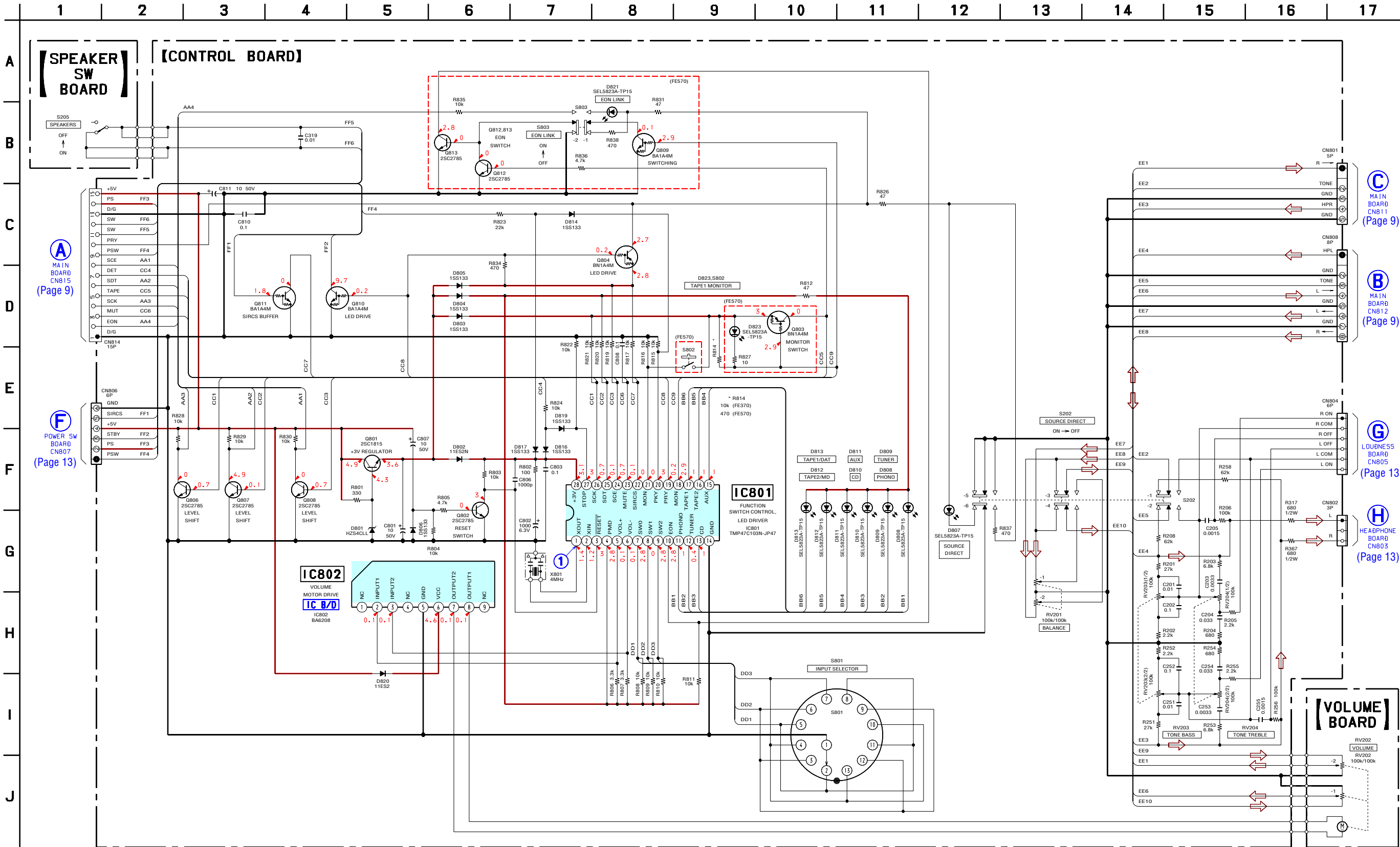
4-4. PRINTED WIRING BOARDS – CONTROL/SPEAKER SW/VOLUME Boards – • See page 7 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D801	B-6	D821	C-13
D802	B-12	D823	C-11
D803	B-11		
D804	B-11	IC801	B-11
D805	B-11	IC802	B-4
D806	B-7		
D807	C-3	Q801	B-6
D808	B-5	Q802	B-7
D809	B-6	Q803	C-12
D810	B-7	Q804	B-8
D811	B-7	Q806	B-5
D812	B-8	Q807	B-6
D813	B-9	Q808	B-6
D814	B-12	Q809	C-13
D816	B-12	Q810	B-8
D817	B-12	Q811	A-14
D819	B-11	Q812	C-13
D820	B-4	Q813	C-13

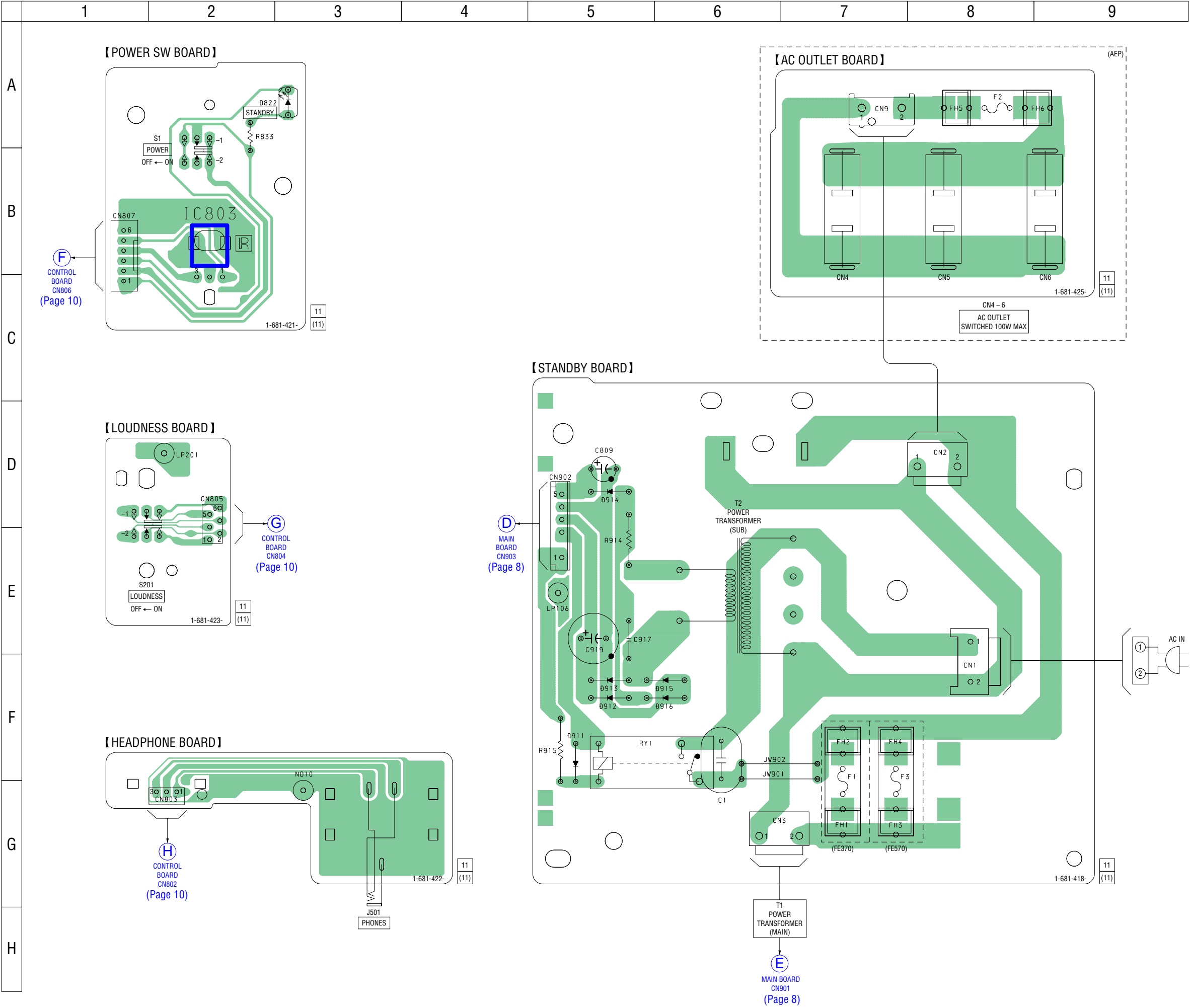
4-5. SCHEMATIC DIAGRAM – CONTROL/SPEAKER SW/VOLUME Boards – • See page 7 for Waveform. • See page 14 for IC Block Diagram.



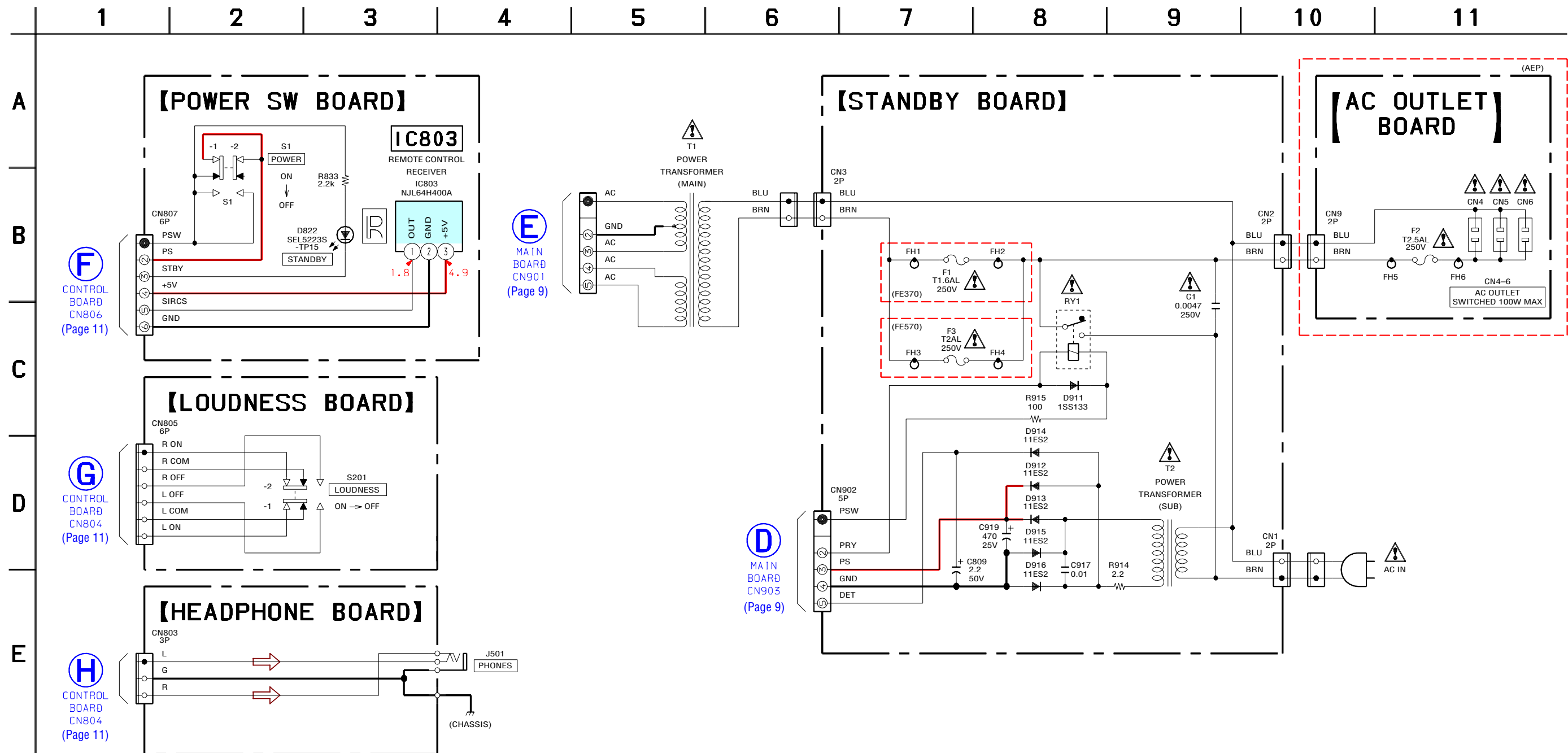
4-6. PRINTED WIRING BOARDS – AC OUTLET/HEADPHONE/LOUDNESS/POWER SW/STANDBY Boards – • See page 7 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D822	A-3
D911	F-5
D912	F-5
D913	F-5
D914	D-5
D915	F-6
D916	F-6
IC803	B-2

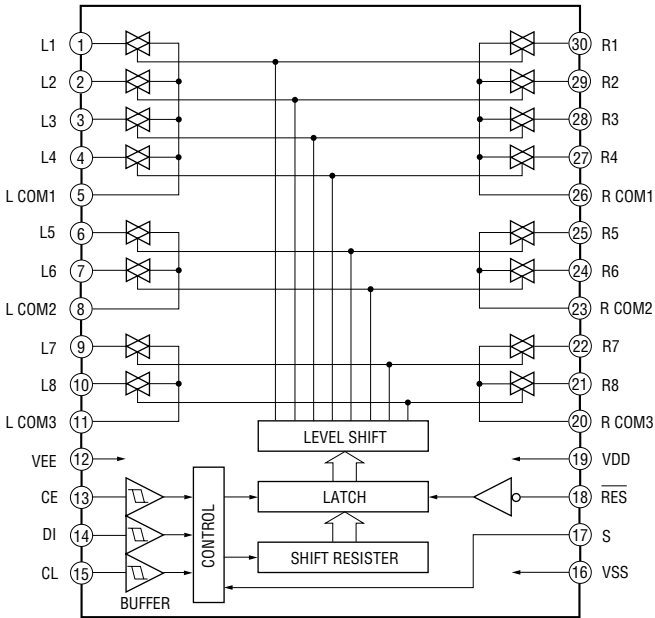


4-7. SCHEMATIC DIAGRAM – AC OUTLET/HEADPHONE/LOUDNESS/POWER SW/STANDBY Boards –



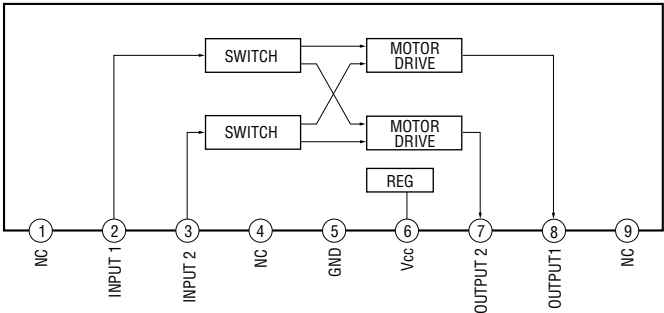
• IC Block Diagrams
– MAIN Board –

IC101 LC7821



– CONTROL Board –

IC802 BA6208

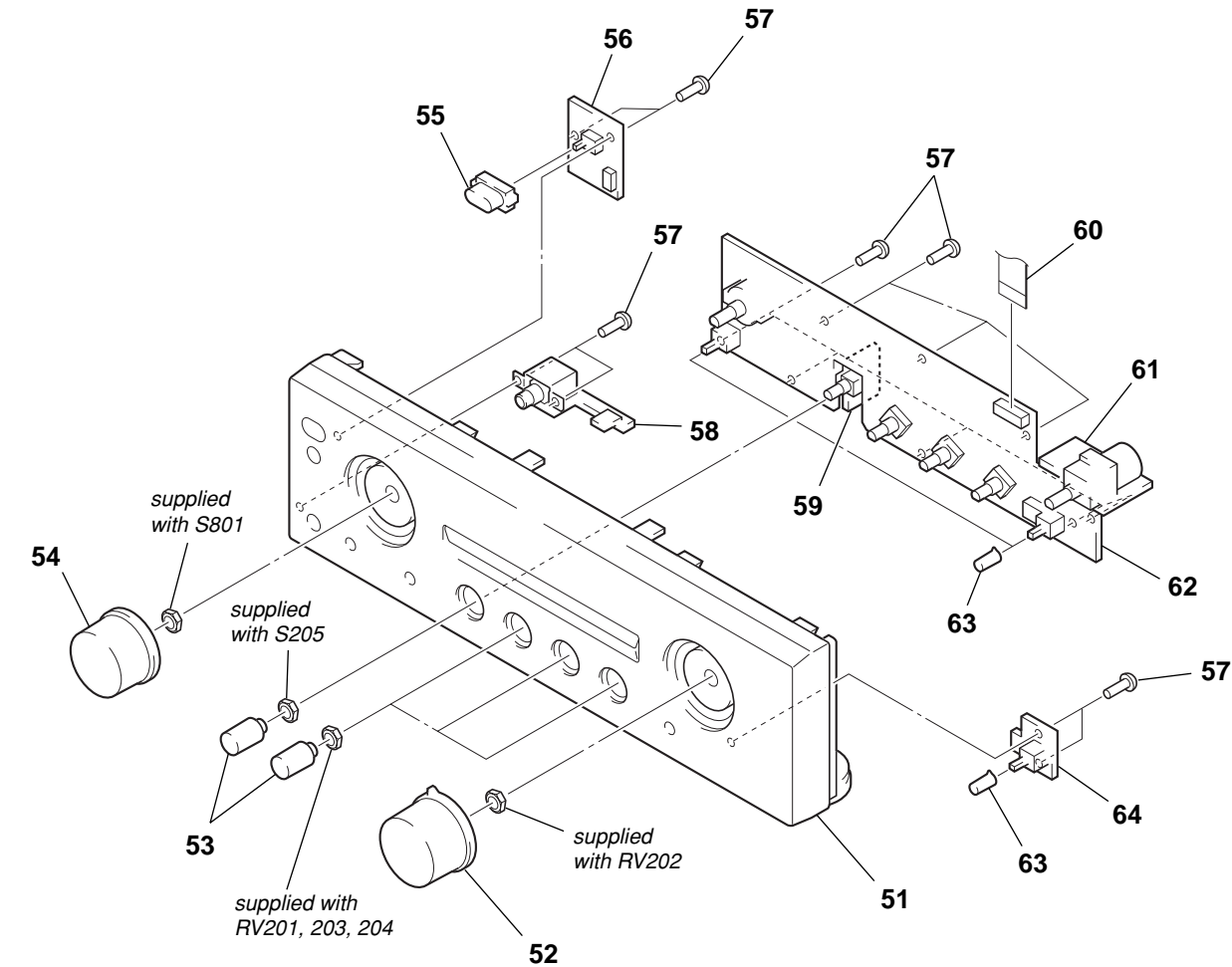


4-8. IC PIN FUNCTION DESCRIPTION

• CONTROL BOARD IC801 TMP47C103N-JP47 (FUNCTION SWITCH CONTROL, LED DRIVER)

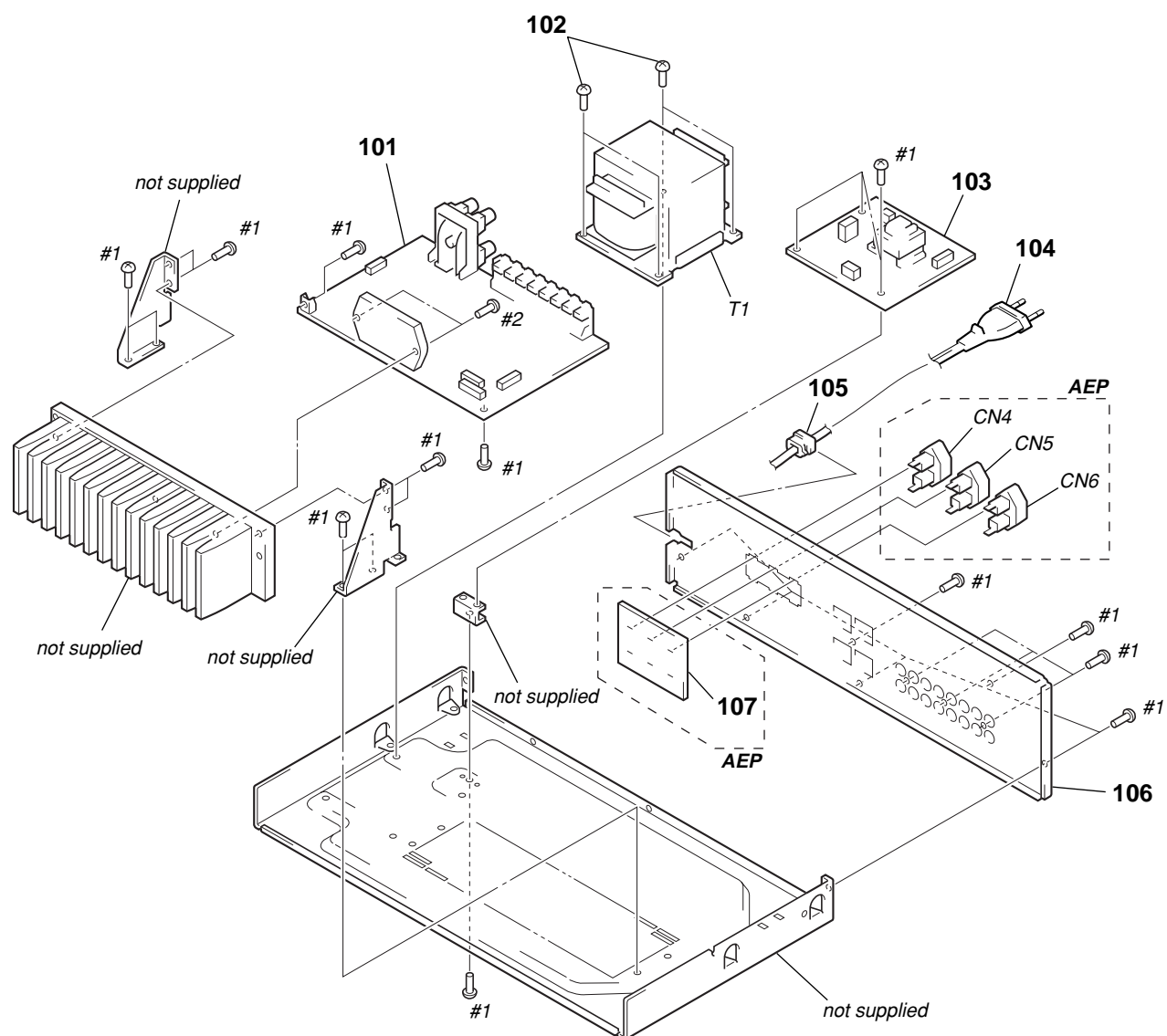
Pin No.	Pin Name	I/O	Description
1	XOUT	O	Main system clock output terminal (4 MHz)
2	XIN	I	Main system clock input terminal (4 MHz)
3	<u>RESET</u>	I	System reset signal input terminal “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
4	PMD	I	Setting terminal for the model (Fixed at “H” in this set)
5	VOL+	O	Motor drive signal output to the volume motor drive (IC802) (volume up direction)
6	VOL-	O	Motor drive signal output to the volume motor drive (IC802) (volume down direction)
7 to 9	SW0 to SW2	I	Rotary switch input of the INPUT SELECTOR (S801)
10	EON	I	Detection signal input of the enhanced other networks (EON) (Used for the TA-FE570) TA-FE370: Not used (fixed at “H”)
11	PHONO	O	LED drive signal output of the PHONO LED (D808) “L”: LED on
12	TUNER	O	LED drive signal output of the TUNER LED (D809) “L”: LED on
13	CD	O	LED drive signal output of the CD LED (D810) “L”: LED on
14	GND	—	Ground terminal
15	AUX	O	LED drive signal output of the AUX LED (D811) “L”: LED on
16	TAPE2	O	LED drive signal output of the TAPE2/MD LED (D812) “L”: LED on
17	TAPE1	O	LED drive signal output of the TAPE1/DAT LED (D813) “L”: LED on
18	MON	O	Tape monitor on/off control signal output terminal “L”: tape monitor on (Used for the TA-FE570) TA-FE370: Not used (pull up)
19	PRY	O	Power on/off relay drive signal output “L”: power on, “H”: standby mode
20	PKY	I	POWER switch (S1) input terminal “H”: power on
21	MON	I	TAPE1 MONITOR switch (S802) input terminal “H” input when key pressing (Used for the TA-FE570) TA-FE370: Not used (fixed at “L”)
22	SIRCS	I	Sircs signal input from the remote control receiver (IC803)
23	MUTE	O	Audio line muting on/off control signal output “H”: muting on
24	SCE	O	Chip enable signal output to the function switch (IC101)
25	SDT	O	Serial data output to the function switch (IC101)
26	SCK	O	Serial data transfer clock signal output to the function switch (IC101)
27	STOP	I	Detection signal input of the AC input
28	+3V	—	Power supply terminal (+3V)

5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4953-702-1	PANEL, FRONT ASSY (BLACK) (FE570)		56	1-681-421-11	POWER SW BOARD	
51	X-4953-703-1	PANEL, FRONT ASSY (BLACK) (FE370)		57	4-951-620-01	SCREW (2.6X8), +BVTP	
51	X-4953-704-1	PANEL, FRONT ASSY (SILVER) (FE570)		58	1-681-422-11	HEADPHONE BOARD	
51	X-4953-719-1	PANEL, FRONT ASSY (SILVER) (FE370)		59	1-681-424-11	SPEAKER SW BOARD	
52	X-4953-705-1	KNOB (VOL) ASSY (BLACK)		60	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)	
52	X-4953-706-1	KNOB (VOL) ASSY (SILVER)		61	1-681-420-11	VOLUME BOARD	
53	4-233-365-01	KNOB (BLACK)		62	A-4476-573-A	CONTROL BOARD, COMPLETE (FE570)	
53	4-233-365-11	KNOB (SILVER)		62	A-4476-583-A	CONTROL BOARD, COMPLETE (FE370)	
54	4-233-364-01	KNOB (SELECTOR) (BLACK)		63	4-980-189-01	KNOB (DIA. 6) (BLACK)	
54	4-233-364-11	KNOB (SELECTOR) (SILVER)		63	4-980-189-11	KNOB (DIA. 6) (SILVER)	
55	4-231-973-31	BUTTON (POWER) (BLACK)		64	1-681-423-11	LOUDNESS BOARD	
55	4-231-973-41	BUTTON (POWER) (SILVER)					

5-3. CHASSIS SECTION



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-4476-571-A	MAIN BOARD, COMPLETE (FE570)		106	4-233-359-31	PANEL, BACK (FE370: UK)	
101	A-4476-581-A	MAIN BOARD, COMPLETE (FE370)		107	1-681-425-11	AC OUTLET BOARD (AEP)	
102	4-900-386-01	SCREW		\triangle CN4	1-526-794-11	OUTLET, AC (AEP)	
103	1-681-418-11	STANDBY BOARD		\triangle CN5	1-526-794-11	OUTLET, AC (AEP)	
\triangle 104	1-575-651-21	CORD, POWER		\triangle CN6	1-526-794-11	OUTLET, AC (AEP)	
* 105	3-703-244-00	BUSHING (2104), CORD		\triangle T1	1-437-254-11	TRANSFORMER, POWER (FE570)	
106	4-233-359-01	PANEL, BACK (FE570: AEP)		\triangle T1	1-437-255-11	TRANSFORMER, POWER (FE370)	
106	4-233-359-11	PANEL, BACK (FE570: UK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
106	4-233-359-21	PANEL, BACK (FE370: AEP)		#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-681-425-11	AC OUTLET BOARD (AEP) *****		D805	8-719-911-19	DIODE 1SS119-25	
	1-533-217-41	HOLDER, FUSE < FUSE >		D806	8-719-911-19	DIODE 1SS119-25	
Δ F2	1-532-464-31	FUSE (T2.5AL/250V) *****		D807	8-719-058-64	LED SEL5823A-TP15 (SOURCE DIRECT)	
	A-4476-573-A	CONTROL BOARD, COMPLETE (FE570)		D808	8-719-058-64	LED SEL5823A-TP15 (PHONO)	
	A-4476-583-A	CONTROL BOARD, COMPLETE (FE370) *****		D809	8-719-058-64	LED SEL5823A-TP15 (TUNER)	
		< CAPACITOR >		D810	8-719-058-64	LED SEL5823A-TP15 (CD)	
C201	1-136-153-00	FILM 0.01uF 5% 50V		D811	8-719-058-64	LED SEL5823A-TP15 (AUX)	
C202	1-136-165-00	MYLAR 0.1uF 5% 50V		D812	8-719-058-64	LED SEL5823A-TP15 (TAPE2/MD)	
C203	1-130-477-00	MYLAR 0.0033uF 5% 50V		D813	8-719-058-64	LED SEL5823A-TP15 (TAPE1/DAT)	
C204	1-136-159-00	MYLAR 0.033uF 5% 50V		D814	8-719-911-19	DIODE 1SS119-25	
C205	1-130-473-00	MYLAR 0.0015uF 5% 50V		D816	8-719-911-19	DIODE 1SS119-25	
C251	1-136-153-00	FILM 0.01uF 5% 50V		D817	8-719-911-19	DIODE 1SS119-25	
C252	1-136-165-00	MYLAR 0.1uF 5% 50V		D819	8-719-911-19	DIODE 1SS119-25	
C253	1-130-477-00	MYLAR 0.0033uF 5% 50V		D820	8-719-024-99	DIODE 11ES2-NTA2B	
C254	1-136-159-00	MYLAR 0.033uF 5% 50V		D821	8-719-058-64	LED SEL5823A-TP15 (EON LINK) (FE570)	
C255	1-130-473-00	MYLAR 0.0015uF 5% 50V		D823	8-719-058-64	LED SEL5823A-TP15 (TAPE1 MONITOR) (FE570)	
C319	1-136-153-00	FILM 0.01uF 5% 50V				< IC >	
C801	1-126-795-11	ELECT 10uF 20% 50V		IC801	8-759-392-41	IC TMP47C103N-JP47	
C802	1-126-916-11	ELECT 1000uF 20% 6.3V		IC802	8-759-962-08	IC BA6208	
C803	1-164-159-11	CERAMIC 0.1uF 50V				< TRANSISTOR >	
C806	1-162-294-31	CERAMIC 0.001uF 10% 50V		Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C807	1-126-795-11	ELECT 10uF 20% 50V		Q802	8-729-119-79	TRANSISTOR 2SC2785-FEK	
C808	1-164-159-11	CERAMIC 0.1uF 50V		Q803	8-729-422-57	TRANSISTOR UN4111 (FE570)	
C810	1-164-159-11	CERAMIC 0.1uF 50V		Q804	8-729-422-57	TRANSISTOR UN4111	
C811	1-126-795-11	ELECT 10uF 20% 50V		Q806	8-729-119-79	TRANSISTOR 2SC2785-FEK	
		< CONNECTOR >		Q807	8-729-119-79	TRANSISTOR 2SC2785-FEK	
CN802	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P		Q808	8-729-119-79	TRANSISTOR 2SC2785-FEK	
CN804	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P		Q809	8-729-900-80	TRANSISTOR DTC114ES (FE570)	
CN806	1-770-143-11	CONNECTOR, BOARD TO BOARD 6P		Q810	8-729-900-80	TRANSISTOR DTC114ES	
CN814	1-784-737-21	CONNECTOR, FFC 15P		Q811	8-729-900-80	TRANSISTOR DTC114ES	
		< DIODE >		Q812	8-729-119-79	TRANSISTOR 2SC2785-FEK (FE570)	
D801	8-719-985-59	DIODE HZS4CLL		Q813	8-729-119-79	TRANSISTOR 2SC2785-FEK (FE570)	
D802	8-719-024-99	DIODE 11ES2-NTA2B				< RESISTOR >	
D803	8-719-911-19	DIODE 1SS119-25		R201	1-249-434-11	CARBON 27K 5% 1/4W	
D804	8-719-911-19	DIODE 1SS119-25		R202	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R203	1-249-427-11	CARBON 6.8K 5% 1/4W	
				R204	1-249-415-11	CARBON 680 5% 1/4W	
				R205	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R206	1-249-441-11	CARBON 100K 5% 1/4W	

CONTROL

HEADPHONE

LOUDNESS

MAIN

Ref. No.	Part No.	Description	Remark
R208	1-247-874-11	CARBON	62K 5% 1/4W
R251	1-249-434-11	CARBON	27K 5% 1/4W
R252	1-249-421-11	CARBON	2.2K 5% 1/4W
R253	1-249-427-11	CARBON	6.8K 5% 1/4W
R254	1-249-415-11	CARBON	680 5% 1/4W
R255	1-249-421-11	CARBON	2.2K 5% 1/4W
R256	1-249-441-11	CARBON	100K 5% 1/4W
R258	1-247-874-11	CARBON	62K 5% 1/4W
R317	1-249-798-11	CARBON	680 5% 1/2W
R367	1-249-798-11	CARBON	680 5% 1/2W
R801	1-249-411-11	CARBON	330 5% 1/4W
R802	1-247-807-31	CARBON	100 5% 1/4W
R803	1-249-429-11	CARBON	10K 5% 1/4W
R804	1-249-429-11	CARBON	10K 5% 1/4W
R805	1-249-425-11	CARBON	4.7K 5% 1/4W
R806	1-247-843-11	CARBON	3.3K 5% 1/4W
R807	1-247-843-11	CARBON	3.3K 5% 1/4W
R808	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-249-429-11	CARBON	10K 5% 1/4W
R810	1-249-429-11	CARBON	10K 5% 1/4W
R811	1-249-429-11	CARBON	10K 5% 1/4W
R812	1-249-401-11	CARBON	47 5% 1/4W
R814	1-249-413-11	CARBON	470 5% 1/4W (FE570)
R814	1-249-429-11	CARBON	10K 5% 1/4W (FE370)
R815	1-249-429-11	CARBON	10K 5% 1/4W
R816	1-249-429-11	CARBON	10K 5% 1/4W
R817	1-249-429-11	CARBON	10K 5% 1/4W
R819	1-249-429-11	CARBON	10K 5% 1/4W
R820	1-249-429-11	CARBON	10K 5% 1/4W
R821	1-249-429-11	CARBON	10K 5% 1/4W
R822	1-249-429-11	CARBON	10K 5% 1/4W
R823	1-249-433-11	CARBON	22K 5% 1/4W
R824	1-249-429-11	CARBON	10K 5% 1/4W
R826	1-249-401-11	CARBON	47 5% 1/4W
R827	1-249-393-11	CARBON	10 5% 1/4W (FE570)
R828	1-249-429-11	CARBON	10K 5% 1/4W
R829	1-249-429-11	CARBON	10K 5% 1/4W
R830	1-249-429-11	CARBON	10K 5% 1/4W
R831	1-249-401-11	CARBON	47 5% 1/4W (FE570)
R834	1-249-413-11	CARBON	470 5% 1/4W
R835	1-249-429-11	CARBON	10K 5% 1/4W (FE570)
R836	1-249-425-11	CARBON	4.7K 5% 1/4W (FE570)
R837	1-249-413-11	CARBON	470 5% 1/4W
R838	1-249-413-11	CARBON	470 5% 1/4W (FE570)
< VARIABLE RESISTOR >			
RV201	1-223-396-21	RES, VAR, CARBON 100K/100K (BALANCE)	
RV203	1-223-397-21	RES, VAR, CARBON 100K/100K (TONE BASS)	
RV204	1-223-397-21	RES, VAR, CARBON 100K/100K (TONE TREBLE)	

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S202	1-571-828-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)	
S801	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)	
S802	1-771-349-21	SWITCH, KEYBOARD (TAPE1 MONITOR)	(FE570)
S803	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK) (FE570)	
		< VIBRATOR >	
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

	1-681-422-11	HEADPHONE BOARD	*****
		< CONNECTOR >	
CN803	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P	
		< JACK >	
J501	1-750-735-11	JACK (LARGE TYPE) (PHONES)	

	1-681-423-11	LOUDNESS BOARD	*****
		< CONNECTOR >	
CN805	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P	
		< SWITCH >	
S201	1-571-112-21	SWITCH, PUSH (1 KEY) (LOUDNESS)	

	A-4476-571-A	MAIN BOARD, COMPLETE (FE570)	
	A-4476-581-A	MAIN BOARD, COMPLETE (FE370)	*****
		< CAPACITOR >	
C101	1-162-282-31	CERAMIC	100PF 10% 50V
C102	1-162-286-31	CERAMIC	220PF 10% 50V
C103	1-126-963-11	ELECT	4.7uF 20% 50V
C104	1-104-660-11	ELECT	47uF 20% 16V
C105	1-162-282-31	CERAMIC	100PF 10% 50V
C106	1-130-480-00	MYLAR	0.0056uF 5% 50V
C107	1-130-473-00	MYLAR	0.0015uF 5% 50V
C108	1-126-964-11	ELECT	10uF 20% 50V
C109	1-126-964-11	ELECT	10uF 20% 50V
C110	1-126-963-11	ELECT	4.7uF 20% 50V (FE570)
C112	1-162-294-31	CERAMIC	0.001uF 10% 50V
C114	1-162-306-11	CERAMIC	0.01uF 30% 16V
C115	1-126-963-11	ELECT	4.7uF 20% 50V
C151	1-162-282-31	CERAMIC	100PF 10% 50V
C152	1-162-286-31	CERAMIC	220PF 10% 50V
C153	1-126-963-11	ELECT	4.7uF 20% 50V
C154	1-104-660-11	ELECT	47uF 20% 16V
C155	1-162-282-31	CERAMIC	100PF 10% 50V
C156	1-130-480-00	MYLAR	0.0056uF 5% 50V
C157	1-130-473-00	MYLAR	0.0015uF 5% 50V
C158	1-126-964-11	ELECT	10uF 20% 50V

TA-FE370/FE570

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C301	1-126-964-11	ELECT	10uF	20%	50V	C905	1-126-968-11	ELECT	100uF	20%	50V
C302	1-162-290-31	CERAMIC	470PF	10%	50V						(FE370)
C303	1-162-282-31	CERAMIC	100PF	10%	50V	C905	1-128-576-11	ELECT	100uF	20%	63V
C305	1-126-933-11	ELECT	100uF	20%	16V						(FE570)
C306	1-126-967-11	ELECT	47uF	20%	50V	C906	1-126-968-11	ELECT	100uF	20%	50V
					(FE370)						(FE370)
C306	1-128-552-11	ELECT	47uF	20%	63V	C906	1-128-576-11	ELECT	100uF	20%	63V
					(FE570)						(FE570)
C307	1-126-965-11	ELECT	22uF	20%	50V	C907	1-161-494-00	CERAMIC	0.022uF		25V
					(FE370)	C908	1-104-660-11	ELECT	47uF	20%	16V
C307	1-128-551-11	ELECT	22uF	20%	63V	C909	1-104-660-11	ELECT	47uF	20%	16V
					(FE570)	C910	1-126-933-11	ELECT	100uF	20%	16V
C308	1-126-965-11	ELECT	22uF	20%	50V						
					(FE370)	C911	1-126-933-11	ELECT	100uF	20%	16V
C308	1-128-551-11	ELECT	22uF	20%	63V	C912	1-136-153-00	FILM	0.01uF	5%	50V
					(FE570)	C913	1-126-964-11	ELECT	10uF	20%	50V
C309	1-126-965-11	ELECT	22uF	20%	50V	C915	1-126-933-11	ELECT	100uF	20%	16V
					(FE370)	C916	1-126-963-11	ELECT	4.7uF	20%	50V
C309	1-128-551-11	ELECT	22uF	20%	63V	< CONNECTOR >					
					(FE570)	CN811	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
C310	1-126-969-11	ELECT	220uF	20%	50V	CN812	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
					(FE370)	CN813	1-566-212-11	PIN, CONNECTOR 3P (EON CONTROL IN)			
C310	1-128-553-11	ELECT	220uF	20%	63V						(FE570)
					(FE570)	CN815	1-784-776-11	CONNECTOR, FFC 15P			
C311	1-136-165-00	MYLAR	0.1uF	5%	50V	CN901	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
C312	1-136-165-00	MYLAR	0.1uF	5%	50V	< DIODE >					
C313	1-104-660-11	ELECT	47uF	20%	16V	D101	8-719-911-19	DIODE 1SS119-25 (FE570)			
C314	1-162-211-11	CERAMIC	33PF	5%	50V	D301	8-719-911-19	DIODE 1SS119-25			
C315	1-126-969-11	ELECT	220uF	20%	50V	D302	8-719-911-19	DIODE 1SS119-25			
					(FE370)	D351	8-719-911-19	DIODE 1SS119-25			
C315	1-128-553-11	ELECT	220uF	20%	63V	D352	8-719-911-19	DIODE 1SS119-25			
					(FE570)	D601	8-719-911-19	DIODE 1SS119-25			
C351	1-126-964-11	ELECT	10uF	20%	50V	D901	8-719-302-38	DIODE RBV-602-01			
C352	1-162-290-31	CERAMIC	470PF	10%	50V	D902	8-719-986-25	DIODE HZS12A2LTA			
C353	1-162-282-31	CERAMIC	100PF	10%	50V	D903	8-719-986-25	DIODE HZS12A2LTA			
C355	1-126-933-11	ELECT	100uF	20%	16V	D904	8-719-024-99	DIODE 11ES2-NTA2B			
C356	1-126-967-11	ELECT	47uF	20%	50V						
					(FE370)	D905	8-719-024-99	DIODE 11ES2-NTA2B			
C356	1-128-552-11	ELECT	47uF	20%	63V	D906	8-719-024-99	DIODE 11ES2-NTA2B			
					(FE570)	D907	8-719-024-99	DIODE 11ES2-NTA2B			
C361	1-136-165-00	MYLAR	0.1uF	5%	50V	D909	8-719-024-99	DIODE 11ES2-NTA2B			
C362	1-136-165-00	MYLAR	0.1uF	5%	50V	< IC >					
C363	1-104-660-11	ELECT	47uF	20%	16V	IC101	8-759-805-13	IC LC7821			
C364	1-162-211-11	CERAMIC	33PF	5%	50V	IC102	8-759-184-02	IC NJM2068L-D			
C601	1-126-961-11	ELECT	2.2uF	20%	50V	IC301	8-749-921-04	IC STK4211MK2 (FE370)			
C602	1-126-934-11	ELECT	220uF	20%	10V	IC301	8-749-922-65	IC STK4221MK2 (FE570)			
C603	1-104-660-11	ELECT	47uF	20%	16V	IC601	8-759-111-68	IC uPC1237HA			
C812	1-164-159-11	CERAMIC	0.1uF		50V						
					(FE570)	IC901	8-759-708-05	IC NJM78L05A			
C900	1-136-153-00	FILM	0.01uF	5%	50V	< JACK >					
C901	1-137-397-11	MYLAR	0.047uF	5%	100V	J101	1-794-981-11	JACK, PIN 4P (PHONO IN, TUNER IN)			
C902	1-137-397-11	MYLAR	0.047uF	5%	100V	J102	1-793-776-12	JACK, PIN 6P			
C903	1-125-793-11	ELECT	8200uF	20%	56V						(CD IN, AUX IN, TAPE2/MD RECOUT)
					(FE570)	J103	1-793-776-12	JACK, PIN 6P (TAPE2/MD IN,			
C903	1-125-815-11	ELECT	6800uF	20%	50V						TAPE1/DAT RECOUT, TAPE1/DAT IN)
					(FE370)	< COIL >					
C904	1-125-793-11	ELECT	8200uF	20%	56V						
					(FE570)	L301	1-420-872-00	COIL, AIR-CORE			
C904	1-125-815-11	ELECT	6800uF	20%	50V						
					(FE370)						

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
L351	1-420-872-00	COIL, AIR-CORE				R176	1-249-441-11	CARBON	100K	5%	1/4W
		< TRANSISTOR >				R207	1-249-425-11	CARBON	4.7K	5%	1/4W
Q101	8-729-141-26	TRANSISTOR	2SC3622A-LK			R257	1-249-425-11	CARBON	4.7K	5%	1/4W
Q102	8-729-119-76	TRANSISTOR	2SA1175-HFE			R301	1-249-439-11	CARBON	68K	5%	1/4W
Q103	8-729-119-79	TRANSISTOR	2SC2785-FEK (FE570)			R302	1-249-417-11	CARBON	1K	5%	1/4W
Q104	8-729-119-79	TRANSISTOR	2SC2785-FEK			R303	1-249-414-11	CARBON	560	5%	1/4W
Q151	8-729-141-26	TRANSISTOR	2SC3622A-LK			R304	1-249-439-11	CARBON	68K	5%	1/4W
						R305	1-260-107-11	CARBON	4.7K	5%	1/2W
Q301	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			R306	1-260-107-11	CARBON	4.7K	5%	1/2W
Q351	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			R307	1-249-405-11	CARBON	100	5%	1/4W
Q901	8-729-119-78	TRANSISTOR	2SC2785-HFE			R308	1-260-328-11	CARBON	1K	5%	1/2W
Q902	8-729-201-53	TRANSISTOR	2SA1015-GR			R309	1-260-328-11	CARBON	1K	5%	1/2W
Q903	8-729-119-79	TRANSISTOR	2SC2785-FEK			R310	1-249-405-11	CARBON	100	5%	1/4W
		< RESISTOR >				R312	1-249-421-11	CARBON	2.2K	5%	1/4W
R101	1-249-417-11	CARBON	1K	5%	1/4W	R313	1-249-433-11	CARBON	22K	5%	1/4W
R102	1-249-413-11	CARBON	470	5%	1/4W	△ R314	1-244-164-11	WIREWOUND	0.22	10%	5W F
R104	1-249-437-11	CARBON	47K	5%	1/4W	R315	1-249-439-11	CARBON	68K	5%	1/4W
R105	1-249-416-11	CARBON	820	5%	1/4W	R316	1-260-300-11	CARBON	4.7	5%	1/2W
R106	1-247-897-11	CARBON	560K	5%	1/4W	R318	1-249-393-11	CARBON	10	5%	1/4W
R107	1-249-437-11	CARBON	47K	5%	1/4W	R320	1-249-385-11	CARBON	2.2	5%	1/6W
R108	1-249-441-11	CARBON	100K	5%	1/4W	R321	1-249-385-11	CARBON	2.2	5%	1/6W
R109	1-249-409-11	CARBON	220	5%	1/4W	R322	1-249-385-11	CARBON	2.2	5%	1/6W
R110	1-249-417-11	CARBON	1K	5%	1/4W	R351	1-249-439-11	CARBON	68K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W	R352	1-249-417-11	CARBON	1K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W	R353	1-249-414-11	CARBON	560	5%	1/4W
R113	1-249-417-11	CARBON	1K	5%	1/4W	R354	1-249-439-11	CARBON	68K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W	R355	1-260-107-11	CARBON	4.7K	5%	1/2W
R115	1-249-417-11	CARBON	1K	5%	1/4W	R356	1-260-107-11	CARBON	4.7K	5%	1/2W
R116	1-249-417-11	CARBON	1K	5%	1/4W	R362	1-249-421-11	CARBON	2.2K	5%	1/4W
R117	1-249-417-11	CARBON	1K	5%	1/4W	R363	1-249-433-11	CARBON	22K	5%	1/4W
R118	1-249-425-11	CARBON	4.7K	5%	1/4W	△ R364	1-244-164-11	WIREWOUND	0.22	10%	5W F
R119	1-249-425-11	CARBON	4.7K	5%	1/4W	R365	1-249-437-11	CARBON	47K	5%	1/4W
R120	1-249-409-11	CARBON	220	5%	1/4W	R366	1-260-300-11	CARBON	4.7	5%	1/2W
R121	1-249-437-11	CARBON	47K	5%	1/4W	R368	1-249-393-11	CARBON	10	5%	1/4W
R122	1-249-419-11	CARBON	1.5K	5%	1/4W	R601	1-260-095-11	CARBON	470	5%	1/2W (FE370)
R123	1-249-427-11	CARBON	6.8K	5%	1/4W	R601	1-260-097-11	CARBON	680	5%	1/2W (FE570)
R124	1-249-425-11	CARBON	4.7K	5%	1/4W (FE570)	R602	1-260-097-11	CARBON	680	5%	1/2W
R125	1-249-429-11	CARBON	10K	5%	1/4W	R603	1-249-417-11	CARBON	1K	5%	1/4W
R126	1-249-441-11	CARBON	100K	5%	1/4W	R604	1-249-441-11	CARBON	100K	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W	R605	1-249-439-11	CARBON	68K	5%	1/4W
R152	1-249-413-11	CARBON	470	5%	1/4W	R606	1-249-431-11	CARBON	15K	5%	1/4W
R154	1-249-437-11	CARBON	47K	5%	1/4W	R607	1-260-103-11	CARBON	2.2K	5%	1/2W
R155	1-249-416-11	CARBON	820	5%	1/4W	R608	1-260-103-11	CARBON	2.2K	5%	1/2W
R156	1-247-897-11	CARBON	560K	5%	1/4W	R832	1-249-393-11	CARBON	10	5%	1/4W (FE570)
R157	1-249-437-11	CARBON	47K	5%	1/4W	R901	1-249-385-11	CARBON	2.2	5%	1/6W
R158	1-249-441-11	CARBON	100K	5%	1/4W	R902	1-260-097-11	CARBON	680	5%	1/2W (FE370)
R159	1-249-409-11	CARBON	220	5%	1/4W	R902	1-260-328-11	CARBON	1K	5%	1/2W (FE570)
R160	1-249-417-11	CARBON	1K	5%	1/4W	R903	1-260-097-11	CARBON	680	5%	1/2W (FE370)
R161	1-249-417-11	CARBON	1K	5%	1/4W	R903	1-260-328-11	CARBON	1K	5%	1/2W (FE570)
R162	1-249-417-11	CARBON	1K	5%	1/4W	R904	1-260-097-11	CARBON	680	5%	1/2W
R163	1-249-417-11	CARBON	1K	5%	1/4W	R905	1-260-097-11	CARBON	680	5%	1/2W
R164	1-249-417-11	CARBON	1K	5%	1/4W						
R165	1-249-417-11	CARBON	1K	5%	1/4W						
R166	1-249-417-11	CARBON	1K	5%	1/4W						
R167	1-249-417-11	CARBON	1K	5%	1/4W						
R168	1-249-425-11	CARBON	4.7K	5%	1/4W						

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

TA-FE370/FE570

MAIN			POWER SW			SPEAKER SW			STANDBY			VOLUME		
Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark					
R907	1-260-328-11	CARBON	1K	5%	1/2W (FE370)	CN2	1-564-321-00	PIN, CONNECTOR 2P						
R907	1-260-330-11	CARBON	1.5K	5%	1/2W (FE570)	CN3	1-564-321-00	PIN, CONNECTOR 2P						
						CN902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P						
R908	1-260-328-11	CARBON	1K	5%	1/2W	< DIODE >								
R910	1-249-429-11	CARBON	10K	5%	1/4W	D911	8-719-911-19	DIODE 1SS119-25						
R912	1-249-429-11	CARBON	10K	5%	1/4W	D912	8-719-024-99	DIODE 11ES2-NTA2B						
R913	1-249-433-11	CARBON	22K	5%	1/4W	D913	8-719-024-99	DIODE 11ES2-NTA2B						
R916	1-249-419-11	CARBON	1.5K	5%	1/4W	D914	8-719-024-99	DIODE 11ES2-NTA2B						
		< RELAY >				D915	8-719-024-99	DIODE 11ES2-NTA2B						
RY101	1-515-614-11	RELAY (FE570)				D916	8-719-024-99	DIODE 11ES2-NTA2B						
RY601	1-515-920-11	RELAY (24V)				< FUSE >								
		< TERMINAL >				△ F1	1-532-503-31	FUSE (T1.6AL/250V) (FE370)						
TM301	1-694-791-11	TERMINAL BOARD (SPEAKERS)				△ F3	1-532-388-31	FUSE (T2AL/250V) (FE570)						

	1-681-421-11	POWER SW BOARD				< RESISTOR >								
		*****				R914	1-249-385-11	CARBON 2.2 5% 1/6W						
		< CONNECTOR >				R915	1-247-807-31	CARBON 100 5% 1/4W						
CN807	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P				< RELAY >								
		< LED >				△ RY1	1-755-276-11	RELAY, POWER						
D822	8-719-058-04	LED SEL5223S-TP15 (STANDBY)				< TRANSFORMER >								
		< IC >				△ T2	1-433-735-11	TRANSFORMER, POWER						
IC803	8-759-459-86	IC NJL64H400A				*****								
		(REMOTE CONTROL RECEIVER)					1-681-420-11	VOLUME BOARD						

		< RESISTOR >				< VARIABLE RESISTOR >								
R833	1-249-421-11	CARBON 2.2K 5% 1/4W				RV202	1-241-426-11	RES, VAR, CARBON 100K/100K (VOLUME)						
		< SWITCH >				*****								
S1	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)				MISCELLANEOUS								

	1-681-424-11	SPEAKER SW BOARD				60	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)						
		*****				△ 104	1-575-651-21	CORD, POWER						
		< SWITCH >				△ CN4	1-526-794-11	OUTLET, AC (AEP)						
S205	1-771-099-11	SWITCH, ROTARY (SPEAKERS)				△ CN5	1-526-794-11	OUTLET, AC (AEP)						

	1-681-418-11	STANDBY BOARD				△ CN6	1-526-794-11	OUTLET, AC (AEP)						
		*****				△ T1	1-437-254-11	TRANSFORMER, POWER (FE570)						
	1-533-217-41	HOLDER, FUSE				△ T1	1-437-255-11	TRANSFORMER, POWER (FE370)						
		< CAPACITOR >				*****								
△ C1	1-113-924-11	CERAMIC 0.0047uF 20% 250V				ACCESSORIES & PACKING MATERIALS								
C809	1-126-961-11	ELECT 2.2uF 20% 50V				*****								
C917	1-162-306-11	CERAMIC 0.01uF 30% 16V				△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)						
C919	1-126-941-11	ELECT 470uF 20% 25V					1-473-655-31	REMOTE COMMANDER (RM-S325)						
		< CONNECTOR >					4-233-885-11	MANUAL, INSTRUCTION						
* CN1	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P						(ENGLISH, FRENCH, GERMAN, SPANISH)						
							4-233-885-21	MANUAL, INSTRUCTION						
								(DUTCH, SWEDISH, ITALIAN, POLISH) (AEP)						
							4-981-643-01	COVER, BATTERY (for RM-S325)						

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

MEMO

REVISION HISTORY

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